


PROCARSA, S.A. DE C.V. NUMERO PTM-87993-2019
CLIENTE: PLESA ANAMUAC Y CLAS. S.A. DE C.V. NUMBER
CERTIFICADO DE INSPECCION
DE PRUEBAS MECANICAS Y ANALISIS QUIMICO FECHA ENERO 25, 2019
INSPECTION CERTIFICATE OF MECHANICAL TESTS AND CHEMICAL ANALYSES DATE
ITEMS: 121848-10 0269
 PRESION HIDROSTATICA: 1.030 PSI PEDIDO INTRNO / LO.
 GRADO: ASTM A53-B 72 Kg/cm²
 GRADO: 0.312" 72 Kg/cm²
 ESPESOR DE PARED: 11.34" HIDROSTATIC TEST:
 WALL THICKNESS: 0.312"

NUM. PROBEA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (F.S.L)	ULTIMA TENSION TENSILE STRENGTH (F.S.L)	% ELONG. INCH.	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	CE IIV	CE Icm
90-17 Tc	115720	70 873	83 586	32	0.091	1.15	0.015	0.004	0.042	0.002	0.009	0.168	0.014	0.030	0.0045	0.016	0.018	0.006	0.0063		
Ts			89 916																		
3-22 Tc	115902	64 558	71 589	36	0.076	0.85	0.013	0.004	0.030	0.002	0.003	0.182	0.208	0.026	0.0037	0.022	0.017	0.005	0.0058		
Ts			75 526																		
254-15 Tc	116320	69 262	80 167	35	0.089	1.16	0.020	0.005	0.048	0.005	0.010	0.176	0.017	0.037	0.0026	0.017	0.018	0.008	0.0055		
Ts			65 818																		
232-12 Tc	116326	67 850	79 529	34	0.089	1.11	0.017	0.004	0.042	0.003	0.008	0.179	0.018	0.027	0.0033	0.014	0.017	0.007	0.0059		
Ts			66 508																		
362-15 Tc	116452	73 950	84 418	32	0.094	1.12	0.016	0.003	0.045	0.002	0.008	0.173	0.039	0.028	0.0030	0.030	0.021	0.008	0.0072		
Ts			87 041																		
242-22 Tc	116453	72 931	82 355	32	0.096	1.13	0.017	0.004	0.046	0.002	0.008	0.165	0.023	0.025	0.0029	0.025	0.018	0.007	0.0083		
Ts			86 182																		
151-22 Tc	216497	71 664	81 431	33	0.102	1.11	0.017	0.004	0.043	0.0020	0.008	0.170	0.020	0.021	0.003	0.020	0.020	0.007	0.0076		
Ts			83 173																		
198-13 Tc	216681	70 725	81 099	35	0.098	1.15	0.018	0.005	0.045	0.0020	0.009	0.179	0.023	0.029	0.003	0.015	0.018	0.009	0.0054		
Ts			87 884																		

WE CERTIFY THAT THE ABOVE DESCRIBED PIPE HAS BEEN MANUFACTURED,
 SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE FOLLOWING
 SPECIFICATION, AND MEETS THE APPLICABLE REQUIREMENTS THEREIN
 CERTIFICAMOS QUE LA TUBERIA AQUÍ DESCRITA CUMPLE Y HA SIDO
 FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO
 CON LOS REQUISITOS APPLICABLES DE LA ESPECIFICACION:
 ASTM A53

 JESÚS CÁZARES
 JEFE DE LABORATORIO METALURGICO
 METALLURGICAL LABORATORY CHIEF